200600238

<u> THE UNITED STATES OF AMERICA</u>

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Syngenta Seeds, Inc.

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE REPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT Y THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY UDBY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

WHEAT, COMMON

'Coker 9553'

In Jestimonn Thereof, I have hereunto set my hand and caused the seal of the Flant Inviety Frotestion Office to be affixed at the City of Washington, D.C. this sixth day of December, in the year two thousand and six.

Attest:

Benz

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secrolary Sture

AGRICULTUR SCIENCE AND TECHNOLOGY	TMENT OF AGRICULTURE RAL MARKETING SERVICE Y - PLANT VARIETY PROTECTION OFFICE T VARIETY PROTECTION CERTIFICATE	the Paperwork Reduction Act (PR	e in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and (A) of 1995. determine if a plant variety protection certificate is to be issued						
	n collection burden statement on reverse)		ld confidential until certificate is issued (7 U.S.C. 2426).						
1. NAME OF OWNER		2. TEMPORARY DESIGNATION	3. VARIETY NAME						
Syngenta Seeds, Inc.		OR EXPERIMENTAL NUMBER D00*6874-2	COKER 9553						
4. ADDRESS (Street and No.or RD No., City, State,	, Zip Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY						
6515 Ascher Road		785-210-0218	PVPO NUMBER						
Junction City, Kansas 66441			200600238						
•		6. FAX (include area code)	ennanne a o						
•		785-210-0231	FILING DATE						
7. IF THE OWNER NAMED IS NOT A "PERSON	AN ONE FORMS IF INCORPORATED ONE								
	1	9. DATE OF INCORPORATION 2000	T 1 12 2006						
ORGANIZATION (corporation, partnership, as	·	2000	July 13, 2006						
Corporation	Delaware								
Dr. Rollin Sears	ESENTATIVE(S) TO SERVE IN THIS APPLICATION		FILING AND EXAMINATION FEES:						
6515 Ascher Road	Copy to: Chr	· ·	730 00						
***************************************		Box 30	\$ \$ 3652.00 730.2						
Junction City, Kansas 66441		thoud, CO 80513	R O The transfer of						
	rbra	ns@frii.com	R DATE 7/13/06 8/14/2006						
			C CERTIFICATION FEE:						
			1 5768.00						
			\$ 768.00 E DATE 10/13/06						
			D DATE 10/13/00						
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL							
785-210-0218	785-210-0231	rollin.sears@:	agripro.com						
14. CROP KIND (Common Name)	16. FAMILY NAME (Botanical)	18. DOES THE VARIETY CONTA	IN ANY TRANSGENES? (OPTIONAL)						
Soft Red Winter Wheat	Gramineae	YES	X NO						
15. GENUS AND SPECIES NAME OF CROP	17. IS THE VARIETY A FIRST GENERATION HY	BRID? IF SO, PLEASE GIVE THE ASS	IGNED USDA-APHIS REFERENCE NUMBER FOR THE						
Triticum aestivum	YES X NO		REGULATE THE GENETICALLY MODIFIED PLANT FOR						
		COMMERICALIZATION.	····						
19. CHECK APPROPRIATE BOX FOR EACH A	TTACHMENT SUBMITTED		THAT SEED OF THIS VARIETY BE SOLD AS A CLASS						
(Follow instructions on reverse) a. X Exhibit A. Origin and Breed	dian Hinton, of the Mediat.		Section 83(a) of the Plant Variety Protection Act)						
CAMBILA. Ongin and breed	ing history of the variety	XYES (If "yes", answer items 21 and 22 below NO (If "no", go to item 23)							
b. X Exhibit B. Statement of Dis	tinctness	21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO							
C [7] = 1770 - 01110 - 1		NUMBER OF CLASSES?							
C. X Exhibit C. Objective Descri	ption of Variety	YES	X NO						
d. X Exhibit D. Additional Descri	iption of the Variety (Optional)	IF YES, WHICH CLASSES?	FOUNDATION REGISTERED CERTIFIED						
e. X Exhibit E. Statement of the	Basis of the Owner's Ownership	22. DOES THE OWNER SPECIFY	THAT SEED OF THIS VARIETY BE LIMITED AS TO						
f [X]		NUMBER OF GENERATIONS?							
verification that fissure culture	ble untreated seeds or, for tuber propagated varietie re will be deposited and maintained in an approved p	es, YES	X NO						
repository)	о что ве верознев ана такапев так аррючев р		NUMBER 1,2,3, etc. FOR EACH CLASS.						
g. X Filing and Examination Fee	(\$3,652), made payable to "Treasurer of the United		REGISTERED CERTIFIED						
States" (Mail to the Plant Va			essary, please use the space indicated on the reverse.)						
	VESTED MATERIAL) OR A HYBRID PRODUCED SED OF, TRANSFERRED, OR USED IN THE U. S.		MPONENT OF THE VARIETY PROTECTED BY						
OTHER COUNTRIES?	JED OF, TRANSPERKED, OR USED IN THE U. S.	INTELLECTUAL PROPERTY F	RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?						
XYES	NO	YES	X No						
	OF FIRST SALE, DISPOSITION, TRANSFER, OR U		RY, DATE OF FILING OR ISSUANCE AND ASSIGNED						
FOR EACH COUNTRY AND THE CIRCUMS 5. The owners declare that a viable sample of b	STANCES. (Please use space indicated on reverse.) REFERENCE NUMBER. (Pleas	se use space indicated on reverse.)						
for a tuber propagated variety a tissue cultur	re will be deposited in a public repository and main	prication and will be replenished upon reque tained for the duration of the certificate	st in accordance with such regulations as may be applicable, or						
The undersigned owner(s) is(are) the owner	of this sexually reproduced or tuber propagated pla	ant variety, and believe(s) that the variety is r	new, distinct, uniform, and stable as required in Section 42, and is						
entitled to protection under the provisions of	f Section 42 of the Plant Variety Protection Act.		,						
Owner(s) is (are) informed that false represer	ntation herein can jeopardize protection and result i	<u> </u>							
KWhin Ste	w	SIGNATURE OF OWNER							
AME (Please print or type) Dr. Rollin Sears		NAME (Please print or type)							
APACITY OR TITLE	DATE /	CADACIDA OD TITI S							
R&D Manager	5/6/2006	CAPACITY OR TITLE	DATE						
3	~/6/000								

R&D Manager

200600238

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificates will be issued to owner, not ticensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
 The variety 'COKER 9553' will be constituted from Breeder seed, and proceed through Foundation, Registered and Certified in succeeding generations.
 Generations which may be multiplied will be Breeder seed, Foundation, Registered and Certified.
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Foundation seed was sold in September 2005. Certified seed stocks of COKER 9553 will be available in the Fall of 2006.

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of COKER 9553

The single cross that produced COKER 9553, (aka. D00*6874-2), "89M-4035A/2580" was made in the 1993 spring greenhouse at Brookston, IN. '89M-4035A' was an AgriPro early maturing breeding line selected from the cross, "IL77-2656/NK79W810". "IL77-2656" was an experimental line from the University of Illinois wheat breeding program that was tested in the 1980-1981 Uniform Eastern Soft Red Winter Wheat Nursery (entry #18). "NK 79W810" was an experimental line from the Northrup King wheat breeding program that was tested in the 1980-1981 Uniform Southern Soft Red Winter Wheat Nursery (entry #24). COKER 9553's male parent was the Pioneer Hybred International wheat variety, "2580". The F1 seeds were planted in a field near Jonesboro, AR, in fall of 1993. Seeds harvested from this F1 row were grown in a 1994-95 F2 bulk plot near Jonesboro, AR which was destroyed by an application of ryegrass herbicide that was contaminated with glyphosate. Remnant F1 seed was re-grown in a 1995-96 F2 Bulk plot near Jonesboro, AR. A portion of the harvested F2 bulk plot was planted in a 1996-97 F3 bulk plot near Cleveland, MS. A portion of the harvested seed from this F3 bulk plot was thin-seeded in a 1997-98 F4 bulk plot near Jonesboro, AR. Heads were selected from this F4 bulk population and grown as F5 head-rows in a field near Jonesboro, AR in 1998-99. The head-row selection that COKER 9553 (D00*6874-2) was derived from was selected for medium height, medium-early heading and maturity, and resistance to the then-current races of stripe rust. The F6 generation was grown in Observation plots near Jonesboro, AR and Cleveland, MS in 1999-00. The mother line from which COKER 9553 was reselected has been in advanced testing from 2001 to 2004 and was tested as AW D00*6874 in the 2003-2004 Uniform Southern Soft Wheat Nursery (entry #21). The progeny plot selection bulk that was used to produce breeder seed of COKER 9553 has been in advanced testing from 2004 to the present and was tested as D00*6874-2 in the 2004-2005 Uniform Southern Soft Wheat Nursery (entry #27). COKER 9553 was also tested in state-run official wheat trials in Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, and Tennessee in 2004-05.

In 2002, 100 purification headrows were grown near Jonesboro, Arkansas, from heads selected from an F7 plot. Fifteen rows were selected and individually harvested and shipped to Colorado for Progeny Plot seed increase in 2003. Six of these fifteen progeny plots grown near Berthoud, Colorado were individually harvested and were paired based upon phenotypic differences into three reselections. In 2004, bulk seed from these three reselections along with bulk seed from the mother line were in replicated yield trials in the Midsouth. At the same time seeds from each of the six progeny reselections were individually grown in 0.8 – 1.9 Acre breeder seed increases near Lucerne, Colorado and in observation plots near Jonesboro, AR. Based upon this trial and observation plot data, three of the progeny breeder seed increases (tested as #1 and #2) were bulked to form COKER 9553 [D00*6874-2].

COKER 9553 has been uniform and stable since 2004. Less than 0.8% of the plants were rogued from the Breeders Seed increase in 2005. Approximately 90% of the rogued variant plants were taller height wheat plants (8 to 15 cm) and 5% were awnletted plants and 5% were bronze chaffed wheat plants. Up to 0.8% variant plants may be encountered in subsequent generations.

Exhibit B. Statement of Distinctness

COKER 9553 is most similar to the soft red winter wheat 'Panola'. However, it can be easily distinguished by the following morphological characteristics:

- COKER 9553 has an acute beak (Lucerne, CO 2004-2005). Panola has an acuminate beak (Lucerne, CO 2004-2005).
- COKER 9553 has a short glume length, (Lucerne, CO 2004-2005). Panola has a medium glume length (Lucerne, CO 2004-2005).
- COKER 9553 has a long brush length on the seed (Lucerne, CO 2004-2005). Panola has a midlong brush length on the seed (Lucerne, CO 2004-2005).

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Wheat)

200600238

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (Triticum Spp.)

NAME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
Syngenta Seeds, Inc.	PVPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Coo 6515 Ascher Road Junction City, Kansas 66441	le) NAME OR EXPERIMENTAL DESIGNATION COKER 9553
Place the appropriate number that describes the varietal character of this variety. Place a zero in the first box when number is either 99 or less or 9 or less respecti minimum of 100 plants. Comparative data should be determined from varieties standard may be used to determine plant colors; designate system used. Please answer all questions for your variety, lack of response may delay progress	vely. Data for quantitative plant characters should be based on a entered in the same trial. Royal Horticultural Society or any recognized
1. KIND:	
1 1=Common 2=Durum 3=Club 4=Other	(specify)
2. VERNALIZATION:	
2 1=Spring 2=Winter 3=Other (specify)	
3. COLEOPTILE ANTHOCYANIN:	
1 1=Absent 2=Present	
4. JUVENILE PLANT GROWTH:	
2 1=Prostrate 2=Semi-erect 3=Erect	
5. PLANT COLOR (boot stage):	
2 1 = Yellow-Green 2 = Green 3 = Blue-Green	
6. FLAG LEAF (boot stage):	
1 = Erect 2 = Recurved	
$1 = Not Twisted \qquad 2 = Twisted$	
7. EAR EMERGENCE:	
0 0 Number of Days Earlier Than	*
0 2 Number of Days Later Than	1GS 2000 *
8. ANTHER COLOR:	
$1 = YELLOW \qquad 2 = PURPLE$	
9. PLANT HEIGHT (from soil to top of head, excluding awns):	
0 0 cm Taller Than	*
0 0 cm Shorter Than	IGS 2000 *Equal to @97 cm's

^{*} Relative to a PVPO-Apprved Commercial Variety Grown in the Same Trial

	D: (continued) COLOR		
3	1 = White $2 = $ Amber $3 = $ Red	4 = Other (speci	fv)
F.	TEXTURE		
2	I=Hard 2=Soft		
G.	PHENOL REACTION (see instructions):		
0	1 = Ivory 2 = Fawn 3 = Light Brow	vn 4 = Dark I	Brown 5 = Black
14. DISI PLEASE IN	EASE: (0=Not Tested; I=Susceptible; DICATE THE SPECIFIC RACE OR STRAIN TESTED	2=Resistant;	3=Intermediate; 4=Tolerant)
0	Stem Rust (Puccinia graminis f. sp. tritici) Field races	0	Leaf Rust (Puccinia recondita f. sp. tritici) Field races
2	Stripe Rust (Puccinia striiformis)	0	Loose Smut (Ustilago tritici)
0	Tan Spot (Pyrenophora tritici-repentis)	0	Flag Smut (Urocystis agropyri)
0	Halo Spot (Selenophoma donacis)	0	Common Bunt (Tilletia tritici or T. laevis)
0	Septoria nodorum (Glume Blotch)	0	Dwarf Bunt (Tilletia controversa)
0	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)
0	Septoria tritici (Speckled Leaf Blotch) Field races	0	Powdery Mildew (Erysiphe graminis f. sp. tritici) Field races
0	Scab (Fusarium spp.)	0	Snow Molds
0	Black Point (Kernel Smudge)	0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.
0	Barley Yellow Dwarf Virus (BYDV)	0	Rhizoctonia Root Rot (Rhizoctonia solani)
	Soilborne Mosaic Virus (SBMV) Field races	0	Black Chaff (Xanthomonas campestris pv. translucens)
	Wheat Yellow (Spindle Streak) Mosaic Virus Field races	0	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)
	Wheat Streak Mosaic Virus (WSMV) Field races		Other (specify)
	Other (specify)		Other (specify)
	Other (specify)		Other (specify)
	Other (specify)		Other (specify)
;			

Exhibit D. Additional Description of COKER 9553

COKER 9553 (D00*6847-2) is a soft red winter wheat bred and developed by AgriPro for grain production. The single cross that produced COKER 9553, (aka. D00*6874-2), "89M-4035A/Pioneer 2580" was made in the 1993 spring greenhouse at Brookston, IN. COKER 9553 is a medium height wheat with medium-early season heading. This variety is intended for grain production with grain yield data that indicates it is adapted to most of the midsouthern and southeastern soft wheat areas. COKER 9553 has shown good resistance to field races of Stripe Rust.

Juvenile growth habit is semierect. Plant color at boot stage is dark green. Flag leaf at boot stage is erect and twisted. Waxy bloom is present on the head, stem and flag leaf sheath. Anther color is yellow. Head shape is strap, middense and awned. Glumes are glabrous, midwide in width and short in length with oblique shoulders and acute beaks. Seed shape is ovate. Brush hairs are long in length and occupy a large area of the seed tip. Seed crease depth is shallow and width is narrow. Seed cheeks are rounded.

AgriPro Soft Wheat Quality Summary

				1	Flour/W	Flour/Wheat Qua	nality								W	Mixogram	-		
																D			
Year-Loc	Wht Prot	Flr Prot	Norris Hard	Brk Filr	Flr Yld	Ash	SRC LA	SRC SUC	SRC SC	SRC H20	SRC ETH	Cookie Dia.	Top Grain	Peak Peak Time HT	Peak HT	Tol.	TR	Mixo Abs	Comments
	14%mb	14%mb 14%mb		%	%	% 14%mb	%	%	%	%	%	mm	R	iiii	N.U.	ļ		%	
							:	Ö	OKE)	COKER 9553									
2005 - MO	8.1	6.7	9	46.4 67.8	8.79	0.388	94.70	96.99 73.89	73.89	56.07		20.4	2.0						
2005 - Л	10.0	8.5	15	38.5	67.3	0.401	104.20	20.96	69.20	55.68		19.2	2.0	2.50	ν,	836	v	7 8 7	
2005 - BAR	13.8	12.3	16	41.5	66.4	0.461	99.12	118.36	75.25	56.37		18.0	8.0)) j	2	`	9	
2004 - MC	11.6	6.6	11	38.1	63.5	0.422	102.38 103.46		71.90	55.24		18.7	5.0						пс
2004 - DA	6.6	8.7	16	38.6	66.4	0.423	108.56 109.49		76.76	60.81		18.6	5.0						CIT
Average:	10.7	9.2	13	40.6	66.3	0.419	101.79	101.79 104.87 73.40	73.40	56.83		19.0	4.4	2.50	5.25	836	5.0	58.5	

	YIELD DATA	(Bu/Ac)				ļ	
MIDSOUT	 	07					
		%		%		ļ	
6874		TRL MEAN			AGS2000	-	
76	65.3	116%	66.0	115%	61	03	AL, Hillsboro
56	53.9	104%	57.0	98%	41		AL, Meridianville
74	67.8	109%	71.6	103%	71	04	AR, Bay-u
72	60.1	120%	58.1	124%	71	01	AR, DeWitt
75	71.3	105%	72.0	104%	76	02	AR, DeWitt
90	78.7	114%	78.7	114%	73		AR, DeWitt
84	80.6	104%	85.4	98%	86	04	AR, DeWitt
116	103.5	112%	106.2	109%	119		AR, DeWitt-u
69	65.2	106%	66.6	104%	73		AR, HollyGrove
57	49.5	115%	50.4	113%	48		AR, J'boro Hmgm
79	71.2	111%	69.6	114%	71		AR, J'boro Hmgm
73	66.3	110%	65.0	112%	63		AR, J'boro Hmgm
83	75.5	110%	75.6	110%	79		AR, J'boro Hmgm
54	51.9	104%	61.4	88%	64	01	AR, Jonesboro
73	65.7	111%	63.9	114%	65	02	AR, Jonesboro
66	63.9	103%	61.7	107%	62		AR, Jonesboro
74	71.8	103%	68.9	107%	76	04	AR, Jonesboro
61	65.6	93%	61.9	99%	80		AR, Marion
56	47.0	119%	47.6	118%	50	02	AR, Marion
72	68.6	105%	64.0	113%	68	03	AR, Marion
62	59.0	105%	60.0	103%	64	02	AR, Marion-clay
77	79.4	97%	80.4	96%	93	04	AR, Marion-clay
85	77.6	110%	72.1	118%	81	04	AR, Stuttgart-u
64	62.2	103%	63.3	101%	65	02	MO, Charleston
87	85.3	102%	85.2	102%	85	03	MO, Charleston
90	84.2	107%	84.8	106%	85	04	MO, Charleston
80	77.3	103%	81.5	98%	90	_	MO, Sikeston
92	81.3	113%	79.5	116%	86		MS, Cleveland
65	62.2	105%	65.9	99%	67	02	MS, Cleveland
72	59.9	120%	62.3	116%	58	03	MS, Cleveland
77	62.5	123%	66.4	116%	61		MS, Cleveland
97	75.6	128%	83.3	116%	67		MS, Cleveland-u
92	88.4	104%	92.9	99%	89		MS, Greenville
76	78.5	97%	87.2	87%	100	$\overline{}$	MS, Greenville
116	103.5	112%	105.2	110%	103	_	MS, Newton-u
63	67.2	94%	65.9	96%		$\overline{}$	TN, Dyersburg
73	70.9	103%	68.7	106%			TN, Dyersburg
73	69.1	106%	73.2	100%		$\overline{}$	TN, Dyersburg
76.3	70.7		71.8		73.7		
lo. Locs	38		38		38		

AGRIPRO	YIELD DAT	A (Bu/Ac)	**************************************			No.	
SOUTHE	AST						
		%		%			
6874	TRL MEAN	TRL MEAN	CK MEAN	CK MEAN	AGS2000	YR	LOC
87	80.7	108%	83.3	104%	86	04	FL, Quincy-u
89	85.1	105%	93.2	96%	101		GA, Griffin-u
93	85.7	109%	89.6	104%	91	03	GA, Plains
80	79.9	100%	77.6	103%	79	04	GA, Plains
73	72.2	101%	72.6	101%	77	04	GA, Plains-u
54	53.4	101%	60.3	90%	63	03	GA, Tifton
95	92.4	103%	95.6	99%	97		GA, Tifton
59	42.3	139%	39.5	149%	23	02	NC, Kinston
58	57.7	101%	53.0	109%	53		NC, Kinston
76	65.6	116%	69.5	109%	74		NC, Kinston
82	70.4	116%	69.2	119%	73		NC, Kinston-u
58	45.5	127%	53.3	109%	51		NC, Plymouth
38	40.3	94%	45.0	84%	51		NC, Plymouth
58	59.4	98%	57.8	100%	61		NC, Plymouth
50	43.1	116%	45.8	109%	57		SC, Blackville
88	83.7	105%	85.2	103%	84		SC, Blackville
56	51.9	108%	51.7	108%	60		SC, Blackville
78	72.8	107%	78.1	100%	77		VA, Prov.Forge
57	59.9	95%	59.0	97%	56		VA, Warsaw-u
69.9	65.4		67.3		69.2		
No. Locs	19.0		19.0		19		
						-	

2001 - 2004 AgriProCOKER Midsouth Agronomy

	TW														
	(lbs/bu)	'04		'03		'02		'01							
VARIETY	AVG	DA	MC	DA	SM	DA	SM	DA	SM						
Variety Tria	<u>d:</u>									_					
AGS 2000	59.7	60	61	56	61	62	59	56	63						
NATCHEZ	58.8	59	58	54	60	59	61	57	62						
SAVAGE	59.6	60	60	55	60	62	61	57	64						
Adjacent Ex															
AGS 2000	59.7	60	61	56	61	62	59	57	62						
D00*6874	59.8	60	59	57	60	61	60	58	63						
	HEADING	'04				'03		'02			'01				
VARIETY	AVG	CS	DA	PSR	SM	DA	SM	CS	DA	JA	CS	_			
Variety Tria	<u>f:</u>											-			
AGS 2000	107.5	98	98	111	111	108	118	107	106	113	106				
NATCHEZ	113.2	107	110	114	119	110	121	112	111	119	109				
SAVAGE	111.7	107	110	112	119	109	119	111	111	117	103				
Adjacent Ex	p Trial														
AGS 2000	107.4	98	98	111	111	108	118	107	106	113	105				
D00*6874	109.6	102	107	112	113	108	117	110	108	115	105				
	Height														
	(cm)	'04					'03			'02			'01		
VARIETY	AVG	CS	DA	CA	MC	SM	CS	DA	SM	DA	JAJH	SM	CS	DA	SM
Variety Trial	<u>:</u>														
AGS 2000	97.3	107	107	100	103	100	92	101	102	92	88	91	91	97	94
NATCHEZ	104.4	114	120	100	102	110	96	111	107	98	99	102	103	104	99
SAVAGE	93.9	105	110	93	92	95	84	97	98	93	83	92	93	91	90
Adjacent Ex	p Trial							- -						••	
AGS 2000	97.3	107	107	100	103	100	92	101	102	92	88	91	94	94	94
D00*6874	97.1	112	105	99	99	105	90	97	100	89	89	95	94	97	91

Location Abbreviations

CA = Crawfordsville, AR (fine sandy loam)

CI = Carmi, IL

CS = Cleveland, MS

MA = Marion, AR (fine sitt loam)

MC = Marion, AR (heavy clay soil)

HKY = Hopkinsville, KY

DTN = Dyersburg, TN

EPMO = East Prairie, MO

KC = KINSTON, NC

JA = Jonesboro, AR standard management

JH = Jonesboro, AR intensive management

PSR= Jonesboro, AR (seed increase plots)

SM = Sikeston, MO area

^{*}Heading Dates from January 1

2001 - 2004 AgriProCOKER Midsouth Pathology

	SBMV	'04	'04	'02		'01		PM	'04	'03	'02	'01		
VARIETY	AVG	HK	PC	MC	DT	DT		AVG	KC	KC	KC	KC		
Variety Tria	<u>d:</u>					•			•					•
AGS 2000	4.9	4	5	4	7	5		2.8	3	1	4	4		
NATCHEZ	1.3	1		2	1	1		4.5		4	6	4		
SAVAGE	1.3	1		2		1		5.0		5				
Adjacent E	xp Trial													
AGS 2000	4.1	4	5	4	7	1		2.5	3	1	4	3		
D00*6874	3.6	3	3	2	5	4		4.3	5	3	4	6		
	S tritici	'02	'01		L Rust	'04			'03	'02				
VARIETY	AVG	HN	CS		AVG	CS	CA	MC	DA	DA	MA	JA	DT	SM
Variety Tria	<u>l:</u>													
AGS 2000	4.5	5	4		2.0		2	2	1	1	2	2	3	3
NATCHEZ	2.5	2	3		1.6	1	1	1	4	1	2	1	2	1
SAVAGE	3.0	3	3		3.0	3	3	3	2	3	2	3	5	3
Adjacent Ex	cp Trial													
AGS 2000	4.5	5	4		2.0		2	2	1	1	2	2	3	3
D00*6874	4.5	6	3		4.1	6	4	4	4	4	4	4	3	4
	Stripe Rust	'04	'03				'02		FHB %	'04		'03		
VARIETY	AVG	CS	GS	CS	DA	НА	DA		AVG	HK	Ci	GH	CI	
Variety Tria	l:													•
AGS 2000	 5.1	6	3	7	7	3	5		83.1	88	80	90	75	
NATCHEZ	1.5	2	1	1	2		2		25.0	50	5	20	25	
SAVAGE	2.7	3	1	4	3		2		41.9	50	38	30	50	
Adjacent Ex	p Trial						•							
AGS 2000	5.5	6	3	7	7		5		83.1	88	80	90	75	
D00*6874	2.0	2	1	2	2		3		63.3		50	90	50	

Location Abbreviations

CA = Crawfordsville, AR (fine sandy loam)

CI = Carmi, IL

CS = Cleveland, MS

MA = Marion, AR (fine silt loam)

MC = Marion, AR (heavy clay soil)

DA = DeWitt, AR

DA = DeWitt, AR

DT = Dyersburg, TN

GS = Greenville, MS

GH = greenhouse ratings

HA = Holly Grove, AR

HKY = Hopkinsville, KY

DTN = Dyersburg, TN

EPMO = East Prairie, MO

KC = KINSTON, NC

JA = Jonesboro, AR

KC = Kinston, NC

NO - Kinston, NO

PC = Plymouth, NC

SM = Sikeston, MO area

HK = Hopkinsville, KY

HN = Haubstadt, IN

Ratings: 1 = best score (resistant), 9 = worst score (susceptible)

Scab: visual % infected

U.S. DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

If no, please answer one of the following:

EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP

5. TELEPHONE (include area code)	6. FAX (include area code)
785-210-0218	785-210-0231
7. PVPO NUMBER 2006	10238

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. X	 NO

NO

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)? YES NO If no, give name of country

YES

- b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company? YES NO If no, give name of country
- 11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Please see following page.

10. Is the applicant the original owner?

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, merital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

Exhibit E. Statement of the Basis of Applicant's Ownership

The variety for which Plant Variety Protection is hereby sought was developed by Barton Fogleman, an employee of Syngenta Seeds, Inc. By agreement between employees and Syngenta, all rights to any invention, discovery, or development made by the employee while employed by Syngenta, were assigned to Syngenta Seeds, Inc., with no rights of any kind pertaining to 'COKER 9553' being retained by the employees.

The variety 'COKER 9553' is owned by Syngenta Seeds, Inc.